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DATE MAILED: 07/28/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/779,744	02/09/2001	Ryuichi Ikematsu	Q63112	5871	
75	590 07/28/2004	EXAMINER			
SUGHRUE, MION, ZINN,			JUNTIMA, NITTAYA		
MACPEAK & SEAS 2100 Pennsylvania Avenue, N.W.			ART UNIT	PAPER NUMBER	
	C 20037-3202	2663			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	Application No. Applicant(s)					
		09/779,74	14	IKEMATSU, RYUICHI				
		Examiner		Art Unit				
		Nittaya Ju	ıntima	2663				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE MAII  - Extensions after SIX (I  - If the perio  - If NO perio  - Failure to any reply re	TENED STATUTORY PERIOD FOR REFLING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CFR 5) MONTHS from the mailing date of this communication. d for reply specified above is less than thirty (30) days, a r d for reply is specified above, the maximum statutory perion to the second of the second	N. 1.136(a). In no ever reply within the state od will apply and with tute, cause the appl	ent, however, may a reply be ting story minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	mely filed ys will be considered time the mailing date of this c ED (35 U.S.C. § 133).				
Status								
1)⊠ Res	sponsive to communication(s) filed on <u>09</u>	February 200	<u>01</u> .					
2a) Thi								
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition (	of Claims							
4a) 5)⊠ Cla 6)⊠ Cla 7)∐ Cla	Claim(s) 1-17 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 1-16 is/are allowed.  Claim(s) 17 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.							
Application	Papers							
10)⊠ The App Rep	specification is objected to by the Examidrawing(s) filed on <u>09 February 2001</u> is/dicant may not request that any objection to the lacement drawing sheet(s) including the corrocath or declaration is objected to by the	are: a)  acc he drawing(s) b ection is requir	e held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 C	FR 1.121(d).			
Priority unde	er 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)								
2) Notice of I 3) Informatio	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) n Disclosure Statement(s) (PTO-1449 or PTO/SB/0 s)/Mail Date	08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate	O-152)			

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#### **DETAILED ACTION**

# **Drawings**

1. The drawings are objected to because in Fig. 1, "S31M" and "S32M" should be changed to "S31N" and "S32N," respectively. See specification on page 8, lines 13-18.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### Specification

- 2. The disclosure is objected to because of the following informalities:
  - the limitation "a virtual output queue buffer for storing reception data for eat

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output interface section to be a destination" recited in claims 7 and 14 lacks antecedent basis in the specification;

- on page 18, lines 3 and 4, "input" should be changed to "output."

Appropriate correction is required.

### Claim Objections

- 3. Claims 1-2, 4-9, and 11-17 are objected to because of the following informalities:
  - in claim 1, line 3, "said" should be deleted;

line 10, "and" should be changed to "or" as the selection circuits cannot switch both information input from an outside and information from one of the NxM schedulers at a front step at the same time, see page 8, lines 26-page 9, line 1 of the specification, and

line 10, "ones of" should be insert after "from;"

line 11, "ones of" should be inserted before "said" and "scheduler" should be changed to "schedulers;"

line 12, a colon should be changed to a semicolon; line 14, "scheduler" should be changed to "schedulers;"

- in claim 2, line 2, an open parenthesis should be replaced with a comma; line 3, a close parenthesis should be replace with a comma; line 3, "said" should be changed to "a;"
- in claim 4, line 3, "(where...two)" should be deleted;
- in claim 5, line 3, "scheduler" should be changed to "schedulers;"
- in claim 6, line 3, "one of" should be inserted after "from;"

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- in claim 7, line 3, "queue)" should be changed to "queue;"
- claims 8-14 contain the same informalities as claims 1-7 above, therefore, the same corrections are required;
- claims 15-17 contain the same informalities as claim 1 with an addition that line 6 of the claims, "multi-mode scheduler" should be changed to "apparatus."

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 17 is a multi-mode scheduling *method claim* having a claim body of a multi-mode scheduler. The claimed steps are missing. Therefore, the claim is vague and indefinite.

#### Allowable Subject Matter

5. Claims 1-16 are allowed. The prior art alone or in combination fail to teach or make obvious on the following when considered in combination with other limitations in the claim:

Claims 1, 8, 15, and 16: (k-1)-pieces of selection circuits for switching allocated output port information input from an outside of said N×kM schedule or information from one of said

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N×M schedulers at a front step so as to be input to ones of said NxM schedulers as allocated

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output port information.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nittaya Juntima whose telephone number is 703-306-4821. The

examiner can normally be reached on Monday through Friday, 8:00 A.M - 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chau Nguyen can be reached on 703-308-5340. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nittaya Juntima July 21, 2004

NA

Chru T. Muyum

CHAU NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600